


IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Fisher *et al.*
Serial No. : 09/907,907
Filed : July 16, 2001
For : GENES DISPLAYING ENHANCED EXPRESSION DURING
CELLULAR SENESECE AND TERMINAL CELL
DIFFERENTIATION AND USES THEREOF

Examiner : Allen, Marianne P.
Group Art Unit: 1641



INFORMATION DISCLOSURE STATEMENT

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Lisa B. Kole

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Lisa B. Kole
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35,225

PTO Registration No.

December 30, 2003

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Commissioner for Patents
P.O. Box 1450
Alexandria VA 22313-1450

Dear Sir:

Pursuant to the provisions of 37 C.F.R. §§ 1.97 and 1.98, Applicants respectfully request that the publications relating to the above-mentioned application listed in reverse chronological order hereinbelow and on the accompanying PTO Form 1449 be considered by the Examiner and made of record in the U.S. Patent and Trademark Office.

1. Leszczyniecka M, Su Z, Kang D, Sarkar D, Fisher PB (2003). Expression regulation and genomic organization of human polynucleotide phosphorylase, hPNPase(old-35), a Type I interferon inducible early response gene. *Gene* 316:143-156.
2. Sarkar D, Leszczyniecka M, Kang DC, Lebedeva IV, Valerie K, Dhar S, Pandita TK, Fisher PB (2003). Down-regulation of Myc as a potential target for growth arrest induced by human polynucleotide phosphorylase (hPNPaseold-35) in human melanoma cells. *J Biol Chem.* 278(27):24542-24551.
3. Strausberg R (2003). Homo sapiens polyribonucleotide nucleotidyltransferase 1, mRNA (cDNA clone MGC:61565 IMAGE:6062060), complete cds. GenBank Acc. No. BC053660.
4. Takahashi H, Furukawa T, Yano T (2003). Homo sapiens PNPase mRNA, partial cds. GenBank Acc. No. AY290863.
5. Leszczyniecka M, Kang DC, Sarkar D, Su ZZ, Holmes M, Valerie K, Fisher PB (2002). Identification and cloning of human polynucleotide phosphorylase, hPNPase old-35, in the context of terminal differentiation and cellular senescence. *Proc Natl Acad Sci USA* 99(26):16636-1664.
6. Leszczyniecka et al.(2002), GenBank Acc. No. AY027528.
7. Rajmakers R (2002). Homo sapiens mRNA for polynucleotide phosphorylase-like protein (PNPase gene). GenBank Acc. No. AJ458465.
8. (October 16, 2001), GenBank Acc. No. P50849.
9. International Patent Application PCT/US00/02920 by The Trustees of Columbia University in the City of New York, filed February 2, 2000, and entitled "Genes Displaying Enhanced Expression during Cellular Senescence and Terminal Cell Differentiation and Uses Thereof," published in English as WO00/46391 on August 10, 2000.

10. Madireddi MT, Dent P, Fisher PB (2000). Regulation of mda-7 gene expression during human melanoma differentiation. *Oncogene* 2000 Mar 2;19(10):1362-1368.
11. Rosenberg LE, Schechter AN (2000). Gene therapist, heal thyself. *Science* 287:1751.
12. Strausberg R (2000). Homo sapiens polyribonucleotide nucleotidyltransferase 1 mRNA. GenBank Acc. No. BC000862.
13. Antic D, Lu N, Keene JD (1999). ELAV tumor antigen, Hel-N1, increases translation of neurofilament M mRNA and induces formation of neurites in human teratocarcinoma cells. *Genes Dev* 13:449-461.
14. International Patent Application PCT/US98/24996 by Geron Corporation, filed November 19, 1998, and entitled "Methods for Modulating and Identifying Cellular Senescence," published in English as WO 99/25878 on May 27, 1999.
15. Huang F, Adelman J, Jiang H, Goldstein NI, Fisher PB (1999). Identification and temporal expression pattern of genes modulated during irreversible growth arrest and terminal differentiation in human melanoma cells. *Oncogene* 18(23):3546-3552.
16. Leszczyniecka M. (February 2, 1999), Keystone Symposium "Aging and Environmental Influences on Life Span," February 2-7, 1999 (submitted abstract).
17. Roberts PJ, Mollapour E, Watts MJ, Linch DC (1999). Primitive myeloid cells express high levels of phospholipase A2 activity in the absence of leukotriene release:selective regulation by stem cell factor involving the MAP kinase pathway. *Blood* 94:1261-1272.
18. Wynford-Thomas (January 1999). Cellular senescence and cancer. *J. Pathol.* 187(1):100-111.
19. Branch A (1998). A good antisense is hard to find. *TIBS* 23:45-50.

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28. United States Patent No. 5,710,137 by Fisher, filed August 16, 1996, entitled "Use of a melanoma differentiation associated gene (mda 7) for reversing a cancerous phenotype," issued January 20, 1998.

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105. Hayflick L, Moorehead PS (1961). The serial cultivation of human diploid cell strains. *Exp Cell Res* 25:585-621.

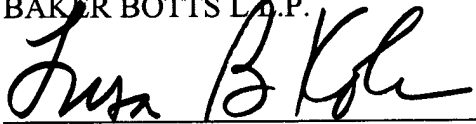
The submission of this Information Disclosure Statement does not represent that a search has been made or that no better art exists and does not constitute an admission that any of the listed documents are material or constitute "prior art." If the Examiner applies any of the documents as prior art against any claim in the application and Applicants determine that the cited documents do not constitute "prior art" under United States law, Applicants reserve the right to present to the Office the relevant facts and law regarding the appropriate status of such documents.

Applicants further reserve the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

Applicants believe that no fees are due in connection with the filing of this Information Disclosure Statement. However, if any fee is due or overpayment made with regard to this communication, the Commissioner is authorized to charge any such fee, and to credit any overpayment, to our Deposit Account No. 02-4377. Two copies of this communication are enclosed.

Respectfully submitted,

BAKER BOTTS L.L.P.


A handwritten signature in black ink, appearing to read "Lisa B. Kole", is written over a horizontal line.

Lisa B. Kole

Patent Office Reg. No. 35,225

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Enclosures

Form PTO-1449 U.S. Department of Commerce (REV. 2-82) Patent and Trademark Office INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary) 	Atty. Docket No. A34585-A PCT-USA (070050.1664)	Serial No. 09/907,907
	Applicant Fisher <i>et al.</i>	
	Filing Date July 16, 2001	Group 1641
	Examiner Allen, Marianne P.	

U.S. PATENT DOCUMENTS												
*Exam. Initial.	No.	Document No.							Date	Name	Class	Filing Date if Approximate.
	28.	5	7	1	0	1	3	7	01/20/98	Fisher	514	44
	72.	5	2	0	0	3	1	3	04/06/93	Carrico	435	6

FOREIGN PATENT DOCUMENTS								
Exam Initial	No.	Document No.			Date	Country	Class	Subclass
	9.	PCT/US00/02920			02/02/00	WO		
	14.	WO 99/25878			05/27/99	WO		

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	1.	Leszczyniecka M, Su Z, Kang D, Sarkar D, Fisher PB (2003). Expression regulation and genomic organization of human polynucleotide phosphorylase, hPNPase(old-35), a Type I interferon inducible early response gene. <i>Gene</i> 316:143-156.

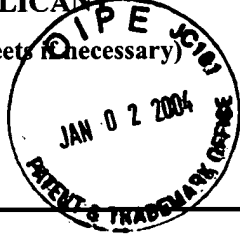
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Date Considered

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Form PTO-1449 U.S. Department of Commerce (REV. 2-82) Patent and Trademark Office	Atty. Docket No. A34585-A PCT-USA (070050.1664)	Serial No. 09/907,907
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	2.	Sarkar D, Leszczyniecka M, Kang DC, Lebedeva IV, Valerie K, Dhar S, Pandita TK, Fisher PB (2003). Down-regulation of Myc as a potential target for growth arrest induced by human polynucleotide phosphorylase (hPNPaseold-35) in human melanoma cells. <i>J Biol Chem.</i> 278(27):24542-24551.
	3.	Strausberg R (2003). Homo sapiens polyribonucleotide nucleotidyltransferase 1, mRNA (cDNA clone MGC:61565 IMAGE:6062060), complete cds. GenBank Acc. No. BC053660.
	4.	Takahashi H, Furukawa T, Yano T (2003). Homo sapiens PNPase mRNA, partial cds. GenBank Acc. No. AY290863.
	5.	Leszczyniecka M, Kang DC, Sarkar D, Su ZZ, Holmes M, Valerie K, Fisher PB (2002). Identification and cloning of human polynucleotide phosphorylase, hPNPase old-35, in the context of terminal differentiation and cellular senescence. <i>Proc Natl Acad Sci USA</i> 99(26):16636-16641.
	6.	Leszczyniecka et al.(2002), GenBank Acc. No. AY027528.
	7.	Raijmakers R (2002). Homo sapiens mRNA for polynucleotide phosphorylase-like protein (PNPase gene). GenBank Acc. No. AJ458465.
	8.	(October 16, 2001), GenBank Acc. No. P50849.
	10.	Madireddi MT, Dent P, Fisher PB (2000). Regulation of mda-7 gene expression during human melanoma differentiation. <i>Oncogene</i> 2000 Mar 2;19(10):1362-1368.
	11.	Rosenberg LE, Schechter AN (2000). Gene therapist, heal thyself. <i>Science</i> 287:1751.
	12.	Strausberg R (2000). Homo sapiens polyribonucleotide nucleotidyltransferase 1 mRNA. GenBank Acc. No. BC000862.

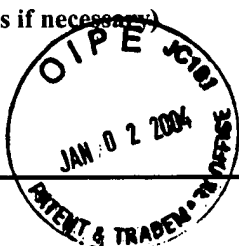
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	13.	Antic D, Lu N, Keene JD (1999). ELAV tumor antigen, Hel-N1, increases translation of neurofilament M mRNA and induces formation of neurites in human teratocarcinoma cells. <i>Genes Dev</i> 13:449-461.
	15.	Huang F, Adelman J, Jiang H, Goldstein NI, Fisher PB (1999). Identification and temporal expression pattern of genes modulated during irreversible growth arrest and terminal differentiation in human melanoma cells. <i>Oncogene</i> 18(23):3546-3552.
	16.	Leszczyniecka M. (February 2, 1999), Keystone Symposium "Aging and Environmental Influences on Life Span," February 2-7, 1999 (submitted abstract).
	17.	Roberts PJ, Mollapour E, Watts MJ, Linch DC (1999). Primitive myeloid cells express high levels of phospholipase A2 activity in the absence of leukotriene release:selective regulation by stem cell factor involving the MAP kinase pathway. <i>Blood</i> 94:1261-1272.
	18.	Wynford-Thomas (January 1999). Cellular senescence and cancer. <i>J. Pathol.</i> 187(1):100-111.
	19.	Branch A (1998). A good antisense is hard to find. <i>TIBS</i> 23:45-50.
	20.	Der SD, Zhou A, Williams BR, Silverman RH (1998). Identification of genes differentially regulated by interferon alpha, beta, or gamma using oligonucleotide arrays. <i>Proc Natl Acad Sci USA</i> 95:15623-15628.
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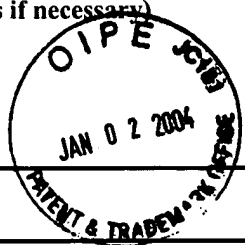
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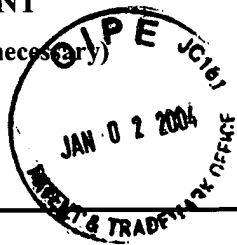
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